09/498701

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ANSWER 2 OF 13 CAPLUS COPYRIGHT 2000 ACS
L4
      Complexes of a selected class of chiral ligands with general
AB
      formula CyN-(C:O)-X-C*R1R3-C*R2R4-X-(C:O)-CyN (X = O, NH, NR; CyN =
      nitrogen contg. heterocycle) with molybdenum, tungsten
      or chromium, preferably molybdenum, are effective as
      catalysts in highly enantioselective and regioselective alkylation
      of allylic substrates. Such compns. provide a versatile and
      Lew-cost alternative to existing catalysts. Thus, PhCH:CHCH2OCO2Me reacts
Chiral ligand N, N'-1R, 2R-cyclohexanediylbis(2-pridinecarboxamide) to give alkylated
      with NaHC(CO2Me)2 in refluxing THF in the presence of [(EtCN)3Mo(CO)3] and
      pridinecarboxamide) to give alkylated products in 88% isolated
      vield with a regioselectivity of 32:1 in favor of the branched
      (S)-PhCH[CH(CO2Me)2]CH:CH2 product (99% ee) over the linear product
      PhCH: CHCH2CH (CO2Me) 2.
AN
      1999:421592 CAPLUS
      131:101904
DN
TI
      Molybdenum bis (pyridinecarboxamide) chiral
      ligand complex catalytic compositions and methods for
      asymmetric allylic alkylation
      Trost, Barry M.; Hachiya, Iwao
IN
      The Board of Trustees of the Leland Stanford Junior University, USA;
PΑ
      Chirotech Technology Limited
SO
      PCT Int. Appl., 46 pp.
      CODEN: PIXXD2
DT
      Patent
      English
T.A
FAN.CNT 1
                                                  APPLICATION NO.
      PATENT NO.
                         KIND DATE
                                                                       DATE
                                                   _____
                         ____
                                                   WO 1998-GB3850
                                                                       19981221
                          A2
                                 19990701
PΙ
      WO 9932225
                          A3
                                 19991104
      WO 9932225
           W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
          W. AL, AM, AI, AU, AZ, BA, BB, BG, BK, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                                  AU 1999-17711
                                                                      19981221
      AU 9917711
                          A1
                                 19990712
                          19971219
PRAI US 1997-68128
      WO 1998-GB3850
                          19981221
      CASREACT 131:101904; MARPAT 131:101904
OS
      ANSWER 3 OF 13 CAPLUS COPYRIGHT 2000 ACS
L4
      Alkylation of Cp*Cr(THF)Cl2 (Cp* =
AΒ
      pentamethylcyclopentadienyl) with 1 or 2 equiv of LiCH2SiMe3 yielded the
      paramagnetic Cr alkyls [Cp*Cr(.mu.-Cl)(CH2SiMe3)]2
      (1), Cp*Cr(CH2SiMe3)2 (2), and Cp*Cr(L)(CH2SiMe3)2
      (3a, L = py (pyridine); 3b, L = THF). Compd. 2 is a
      coordinatively unsatd., pseudo-five-coordinate CrIII complex with a
      13-electron configuration, and it catalyzes the polymn. of ethylene.
      thermal decompn. of 2 in noncoordinating solvents proceeded via an
      intermediate, the bis(.mu.-alkylidene) complex [Cp*{\tt Cr}
      (.mu.-CHSiMe3)]2 (4). Compd. 4 suffered reductive elimination to yield
      the dinuclear CrII alkyl Cp*2Cr2(.mu.-CH2SiMe2CH2-.mu.-CHSiMe3) (5). In
      contrast, the decompn. of 2 in THF, i.e., 3b, yielded the metallacycles
      Cp*Cr(L)[(CH2)2SiMe2] (6a, L = py; 6b, L = THF). Compds. 1, 2,
      3b, 4, and 5 were structurally characterized by x-ray diffraction.
      reactions of 2 are rationalized in terms of competing .alpha.- and
      .gamma.-H elimination processes yielding terminal alkylidene and
```

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1998:724720 CAPLUS
AN.
DN
     130:95641
     Structure and Reactivity of Trimethylsilylmethyl Complexes of
ΤI
     Chromium, Including the 13-Electron Alkyl CpCr(CH2SiMe3)2
     Heintz, Robert A.; Leelasubcharoen, Somying; Liable-Sands, Louise M.;
ΑU
     Rheingold, Arnold L.; Theopold, Klaus H.
     Department of Chemistry and Biochemistry, University of Delaware, Newark,
CS
     DE, 19716, USA
     Organometallics (1998), 17(25), 5477-5485
SO
     CODEN: ORGND7; ISSN: 0276-7333
PΒ
     American Chemical Society
DT
     Journal
LA
     English
     CASREACT 130:95641
OS
RE.CNT
       44
RE
(2) Bhandari, G; Chem Eur J 1995, V1, P199 CAPLUS
(3) Bhandari, G; Organometallics 1995, V14, P738 CAPLUS
(4) Brookhart, M; Prog Inorg Chem 1988, V36, P1 CAPLUS
(5) Cotton, F; Inorg Chim Acta 1990, V172, P135 CAPLUS
(6) Fettinger, J; Organometallics 1996, V15, P4211 CAPLUS
AL
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metallacyclobutane intermediates existing in equil.

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> s 11 and metal
       1064724 METAL
        518001 METALS
       1260282 METAL
                 (METAL OR METALS)
             2 L1 AND METAL
L9
=> s ll and binding and metal
        610721 BINDING
          1323 BINDINGS
        611018 BINDING
                 (BINDING OR BINDINGS)
     . 1064724 METAL
       518001 METALS
       1260282 METAL
                 (METAL OR METALS)
             0 L1 AND BINDING AND METAL
L10
=> s l1 and heterocyc? and metal
         94108 HETEROCYC?
       1064724 METAL
        518001 METALS
       1260282 METAL
                 (METAL OR METALS)
             O L1 AND HETEROCYC? AND METAL
L11
=> s ll and (pyridine or pyramidine) and metal
        121252 PYRIDINE
         11571 PYRIDINES
        124830 PYRIDINE
                 (PYRIDINE OR PYRIDINES)
            14 PYRAMIDINE
             4 PYRAMIDINES
            17 PYRAMIDINE
                  (PYRAMIDINE OR PYRAMIDINES)
       1064724 METAL
        518001 METALS
       1260282 METAL
                  (METAL OR METALS)
              O L1 AND (PYRIDINE OR PYRAMIDINE) AND METAL
L12
=> s l1 and ligand
         187944 LIGAND
         126904 LIGANDS
         257206 LIGAND
                  (LIGAND OR LIGANDS)
              5 L1 AND LIGAND
 => d 19 1-2 abs bib hitstr
     ANSWER 1 OF 2 CAPLUS COPYRIGHT 2000 ACS
L9
      Asym. induction in metal-catalyzed allylic alkylations with
AB
      stabilized nucleophiles places severe demands on the nature of the
      inducing ligands because of the distal relationship between the incoming
```

nucleophile and the chiral environment. A model invoking creation of chiral pockets led to the generation of a series of chiral and optically

Desai

active ligands derived from the com. available 1,1'-binaphthol. Asym. syntheses of nearly 70% enantiomer excess are accessible at practical operating temps. of 25-66.degree..

- AN 1985:437000 CAPLUS
- DN 103:37000
- TI A model for metal-templated catalytic asymmetric induction via .pi.-allyl fragments
- AU Trost, Barry M.; Murphy, Dennis J.
- CS Dep. Chem., Univ. Wisconsin, Madison, WI, 53706, USA
- SO Organometallics (1985), 4(6), 1143-5 CODEN: ORGND7; ISSN: 0276-7333
- DT Journal
- LA English
- L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2000 ACS
- AB Alkylation of (MeCO)2CH2 with allylic alcs. in the presence of Pd catalysts gave mono- and dialkylated products. E.g., (MeCO)2CH2 was treated with MeCH(OH)CH:CH2 in the presence of Ph3P and Pd(acac)2 (acacH = acetylacetone) (85-90.degree., 17 h, under N2) to give 41% (E)-(MeCO)2CHCH2CH:CHMe [(E)-I], 11% (Z)-I, 30% (MeCO)2CHCHMeCH:CH2, 12% (E,E)-(MeCO)2C(CH2CH:CHMe)2 [(E,E)-II], 5% (E,Z)-II, and 1% (Z,Z)-II.
- AN 1982:34484 CAPLUS
- DN 96:34484
- TI Metal complexes in organic synthesis. V. Alkylations of pentane-2,4-dione with allylic alcohols under palladium catalysis
- AU Moreno-Manas, M.; Trius, A.
- CS Dep. Quim. Org., Univ. Auton. Barcelona, Barcelona, Spain
- SO Tetrahedron (1981), 37(17), 3009-15 CODEN: TETRAB; ISSN: 0040-4020
- DT Journal
- LA English
- => s 113 abs bib hitstr 1-5

MISSING OPERATOR L13 ABS

The search profile that was entered contains terms or nested terms that are not separated by a logical operator.

=> d 113 abs bib hitstr 1-5

L13 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2000 ACS

In contrast to reactions of the bis(pentamethylcyclopentadienyl)titanium system, substituted allyl complexes of the electron-rich bis(2-piperidinoindenyl)titanium(III) template, e.g. I (R = Ph, Me) are converted to 2,3-disubstituted titanacyclobutane complexes, e.g. II (R = Me, Ph; R1 = iPr, cyclohexyl, tBu,) by free radical alkylation at the allyl central carbon. The crystal structure of I (R = Ph) was detd.

AN 1999:98050 CAPLUS

DN 130:252447

TI Titanacyclobutane Synthesis by Radical Alkylation of Substituted Allyl Complexes. The Use of Electron-Rich Bis(2-piperidinoindenyl)titanocene(III) Complexes to Control Allyl Ligand Reactivity

AU Carter, Charles A. G.; McDonald, Robert; Stryker, Jeffrey M.

CS Department of Chemistry, University of Alberta, Edmonton, AB, T6G 2G2, Can.

SO Organometallics (1999), 18(5), 820-822 CODEN: ORGND7; ISSN: 0276-7333

PB American Chemical Society

DT Journal

LA English

OS CASREACT 130:252447

RE.CNT 32

RF.

(1) Barsties, E; J Organomet Chem 1996, V520, P63 CAPLUS

(2) Blenkers, J; J Organomet Chem 1981, V218, P383 CAPLUS

(8) Casty, G; J Am Chem Soc 1995, V117, P7814 CAPLUS

(9) Chen, J; J Organomet Chem 1991, V407, P191 CAPLUS

(12) Girard, P; J Am Chem Soc 1980, V102, P2693 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2000 ACS

The reaction of trans-[Mn(CN)(CO)(dppm)2] (dppm = (Ph2P)2CH2) with [Fe{P(OMe)2}(NO)2(.eta.-C3H4R)] R = H, 1-Me, or 2-Me) in THF results in allylic alkylation of the CN- ligand to give trans-[Mn(CO)(CNCH2CM:CH2)(dppm)2][PF6].cntdot.THF and trans-[Mn(CO)(CNCH2CH:CHR)(dppm)2][PF6].cntdot.THF (R = H, Me). The x-ray crystal structure of trans-[Mn(CO)(CNCH2CMe:CH2)(dppm)2][PF6].cntdot.THF shows that in the cation the Mn(I) atom has approx. octahedral coordination, with the CO and CNCH2CMe:CH2 ligands mutually trans, and chelating dppm ligands occupying the 4 equatorial sites. Crystal data: monoclinic, space group P21/c, a 11.459(2), b 20.075(5), c 20.309(3) .ANG., .beta. 95.50(1).degree., Z = 4, R = 0.083, R' = 0.097.

AN 1991:693499 CAPLUS

DN 115:293499

- TI Allylic alkylation of coordinated cyanide; the synthesis and x-ray crystal structure of trans-bis[bis(diphenylphosphino)methane-.kappa.P,P']carbonyl(2-methylallyl isocyanide-.kappa.C)manganese hexafluorophosphate tetrahydrofuran(1/1)
- AU Connelly, Neil G.; Orpen, A. Guy; Rosair, Georgina M.; Worth, Gillian H.
- CS Sch. Chem., Univ. Bristol, Bristol, BS8 1TS, UK
- SO J. Chem. Soc., Dalton Trans. (1991), (7), 1851-4 CODEN: JCDTBI; ISSN: 0300-9246
- DT Journal
- LA English
- L13 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2000 ACS
- Asym. induction in metal-catalyzed allylic alkylations with stabilized nucleophiles places severe demands on the nature of the inducing ligands because of the distal relationship between the incoming nucleophile and the chiral environment. A model invoking creation of chiral pockets led to the generation of a series of chiral and optically active ligands derived from the com. available 1,1'-binaphthol. Asym. syntheses of nearly 70% enantiomer excess are accessible at practical operating temps. of 25-66.degree..
- AN 1985:437000 CAPLUS
- DN 103:37000
- TI A model for metal-templated catalytic asymmetric induction via .pi.-allyl fragments
- AU Trost, Barry M.; Murphy, Dennis J.
- CS Dep. Chem., Univ. Wisconsin, Madison, WI, 53706, USA
- SO Organometallics (1985), 4(6), 1143-5 CODEN: ORGND7; ISSN: 0276-7333
- DT Journal
- LA English
- L13 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2000 ACS
- Pd-catalyzed alkylation of Me2C:CHCH2OAc with dialkyl malonate anions gives the same product pattern as the stoichiometric alkylations of (.eta.3-3-methylbutenyl)palladium chloride and the corresponding cationic complex. Consequently, a (.pi.-allyl)palladium intermediate is probable in the catalytic reaction. According to NMR evidence, the reactive intermediate is an .eta.3- rather that an .eta.1-allyl complex. Acceptor ligands, even weak ones such as phosphines, have a strong electronic influence on the reaction, and direct the attack toward the more substituted position. The formal charge of the complexes is important to the reactivity, but when phosphines are present as acceptor ligands, the formation of cationic intermediates may not be necessary.
- AN 1984:175048 CAPLUS
- DN 100:175048
- TI Alkylation of (.pi.-allyl)palladium systems. Mechanism and regiocontrol
- AU Aakermark, Bjoern; Hansson, Sverker; Krakenberger, Bertil; Vitagliano, Aldo; Zetterberg, Krister
- CS Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100 44, Swed.
- SO Organometallics (1984), 3(5), 679-82 CODEN: ORGND7; ISSN: 0276-7333
- DT Journal
- LA English
- L13 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2000 ACS
- AB Allylic alkylation of alkyl-substituted .pi.-allylpalladium complexes requires enhancement of their electrophilicity by addn. of **ligands**. Phosphines and phosphites are preferred. The regiochem. of the alkylation as a function of **ligand** and .pi.-allyl complex is explored. Alkylation of cyclic compds. involves a strong preference for axial attacks.
- AN 1978:507270 CAPLUS
- DN 89:107270
- TI Allylic alkylation: nucleophilic attack on .pi.-allylpalladium complexes
- AU Trost, Barry M.; Weber, Lothar; Strege, Paul E.; Fullerton, Terry J.;

Dietsche, Thomas J.
Dep. Chem., Univ. Wisconsin, Madison, Wis., USA
J. Am. Chem. Soc. (1978), 100(11), 3416-26
CODEN: JACSAT; ISSN: 0002-7863 CS

SO

DT Journal

English LA

- L13 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2000 ACS
- Allylic alkylation of alkyl-substituted .pi.-allylpalladium complexes requires enhancement of their electrophilicity by addn. of **ligands**. Phosphines and phosphites are preferred. The regiochem. of the alkylation as a function of **ligand** and .pi.-allyl complex is explored. Alkylation of cyclic compds. involves a strong preference for axial attacks.
- AN 1978:507270 CAPLUS
- DN 89:107270
- TI Allylic alkylation: nucleophilic attack on .pi.-allylpalladium complexes
- AU Trost, Barry M.; Weber, Lothar; Strege, Paul E.; Fullerton, Terry J.; Dietsche, Thomas J.
- CS Dep. Chem., Univ. Wisconsin, Madison, Wis., USA
- SO J. Am. Chem. Soc. (1978), 100(11), 3416-26 CODEN: JACSAT; ISSN: 0002-7863
- DT Journal
- LA English

09/498701 Page 1

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         Dec 17
                 EPO, and German patents
                 Addition of Machine-Translated Abstracts to CAplus
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         Feb
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         Feb 28
                 SDI/UPDATE SEARCH FIELD
                 Beilstein Abstracts on STN - FILE BABS
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                 Weekly Statistics for New Entries now available
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         May 19
                 in INPADOC
                 CITED REFERENCES NOW AVAILABLE IN CAPLUS AND CA FILE
         May 22
NEWS 11
                 POSTPROCESSING OF SEARCH RESULTS MAY BE AFFECTED
        May 22
NEWS 12
                 BY ADDITION OF CITED REFERENCES TO CAPLUS, CA,
                 REGISTRY, CASREACT, MARPAT, and MARPATPREV
                 KOREAN PATENTS NOW IN CAS DATABASES
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         Jun
                 WIPO/PCT Patents Fulltext Database now on STN
NEWS 14
         Jun 20
                 NEWS 15 Jun 28 CAS covers Web-distributed preprints
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         Jun 28
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1 ANSWERS

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1465

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SEARCH TIME: 00.02.15

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INCOMPLETE BATCH

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=> s 13 and (Mo Or W or Cr or Molybdenum or Tungsten or Chromium)

81 L3

336597 MO

28652 MOS

363033 MO

(MO OR MOS)

119 OR

251473 W

O MO OR W

(MO(W)OR(W)W)

262524 CR

983 CRS

263198 CR

(CR OR CRS)

152547 MOLYBDENUM

33 MOLYBDENUMS

152551 MOLYBDENUM

(MOLYBDENUM OR MOLYBDENUMS)

118195 TUNGSTEN

24 TUNGSTENS

118198 TUNGSTEN
(TUNGSTEN OR TUNGSTENS)
234952 CHROMIUM
68 CHROMIUMS

234952 CHROMIUM

(CHROMIUM OR CHROMIUMS),

5 L3 AND (MO OR W OR CR OR MOLYBDENUM OR TUNGSTEN OR CHROMIUM)

=> d 14 abs bib hitstr 1-5

L4

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2000 ACS

The synthesis of poly(amide-ester)s from 2,6-pyridine dicarboxylic acid AΒ and ethanolamine derivs. was studied using direct and indirect polycondensation techniques. Direct polycondensation with aminoalcs. gave polymers with a statistical structure. Polycondensation with an intermediate reactive compd., a bis(amide-alc.) which has only one type of functional group, produced a more regular and defined polymer chain. These new polymers contain pyridine rings linked by ester and amide groups in the main chain, groups known to have complexing abilities. Chelation attempts with various metals were done in order to evaluate their possible use as chelating resins. As the synthesized poly(amide-ester)s are insol. in water, solid/liq. extns. have been carried out and the resin sorption for mixt. of basic and/or precious metals were studied under various exptl. conditions (reaction time and hydrochloric acid concn.). The polycondensates are Au(III)-selective and their capacity and desorption characteristics were evaluated.

AN 1999:805121 CAPLUS

DN 132:108680

Synthesis of poly(amide-ester)s from 2,6-pyridine dicarboxylic acid and ethanolamine derivatives - investigation of the polymer sorption behavior towards heavy metal ions

AU Chevallier, Pascale; Soutif, Jean-Claude; Brosse, Jean-Claude; Grote, Manfred

CS Chimie et Physique des Materiaux Polymeres UMR 6515, CNRS - Universite du Maine, Le Mans, F-72017, Fr.

SO React. Funct. Polym. (1999), 42(2), 129-146 CODEN: RFPOF6; ISSN: 1381-5148

PB Elsevier Science B.V.

DT Journal

LA English

IT 255851-63-9P 255851-68-4P 255851-70-8P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process) (synthesis of poly(amide-ester)s from 2,6-pyridinedicarboxylic acid chloride and ethanolamine derivs. and their sorption behavior towards heavy metal ions)

RN 255851-63-9 CAPLUS

CN Poly[2,6-pyridinediylcarbonyloxy(2,2-dimethyl-1,2-ethanediyl)iminocarbonyl-2,6-pyridinediylcarbonylimino(1,1-dimethyl-1,2-ethanediyl)oxycarbonyl] (9CI) (CA INDEX NAME)

RN 255851-68-4 CAPLUS

Poly[2,6-pyridinediylcarbonyloxy(2-methyl-1,2-ethanediyl)iminocarbonyl-2,6-CNpyridinediylcarbonylimino(1-methyl-1,2-ethanediyl)oxycarbonyl] (9CI) (CA INDEX NAME)

255851-70-8 CAPLUS RN

Poly(2,6-pyridinediylcarbonyloxy-1,2-ethanediyliminocarbonyl-2,6-CN pyridinediylcarbonylimino-1,2-ethanediyloxycarbonyl) (9CI) (CA INDEX NAME)

14 RE.CNT

- (2) Chessa, G; React Polym 1990, V12, P219 CAPLUS (3) Chessa, G; React Polym 1991, V14, P143 CAPLUS
- (4) Chevallier, P; Eur Poly J 1998, V34, P767 CAPLUS
- (6) Grote, M; Anal Chim Acta 1985, V172, P223 CAPLUS (7) Grote, M; Anal Chim Acta 1985, V175, P239 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 2 OF 5 CAPLUS COPYRIGHT 2000 ACS L4GI

The title reaction was examd. using (EtCN) 3Mo(CO)3 (I) as catalyst and AΒ several diamine ligands. Thus, reacting PhCH:CHCH:CHCH2OCO2Me with (MeO2C) 2CH using I and diamine II gave (MeO2C) 2CC (CH:CH2) CH:CHPh in 98% ee. Polyenyl carbonate III gave diester IV in 96% ee after 1.5 h.

1999:680946 CAPLUS ΑN

132:78124 DN

Regio- and enantioselective molybdenum-catalyzed alkylations of TIpolyenyl esters

Trost, Barry M.; Hildbrand, Stefan; Dogra, Kalindi ΑU

Department of Chemistry, Stanford University, Stanford, CA, 94305-5080, CS USA

J. Am. Chem. Soc. (1999), 121(44), 10416-10417 SO CODEN: JACSAT; ISSN: 0002-7863

American Chemical Society PΒ

Journal DT

English LΑ

CASREACT 132:78124 OS

230312-36-4 ΙT

RL: CAT (Catalyst use); USES (Uses) (regio- and enantioselective molybdenum-catalyzed alkylation of polyenyl esters)

230312-36-4 CAPLUS RN

2-Pyridinecarboxamide, N,N'-[(1R,2R)-1,2-diphenyl-1,2-ethanediyl]bis-CN (9CI) (CA INDEX NAME)

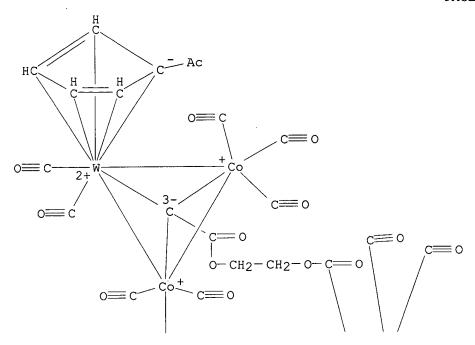
Absolute stereochemistry.

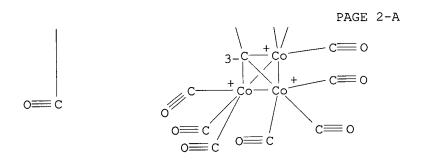
RE.CNT

RE

- (1) Adams, R; J Am Chem Soc 1979, V101, P2570 CAPLUS
- (2) Andersson, P; J Org Chem 1991, V56, P5349 CAPLUS
- (3) Faller, J; J Organomet Chem 1990, V383, P161 CAPLUS
- (4) Faller, J; Organometallics 1988, V7, P1670 CAPLUS
- (6) Glorius, F; Org Lett 1999, V1, P141 CAPLUS

- L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2000 ACS
- The reaction of CO2(CO)8 and [Cl3CC(O)OCH2]2 gave a novel double AB tetrahedral cluster compd. ([(CO)9Co3(.mu.3-C)C(O)OCH2]2 1) contg. two tetrahedral skeletons (Co3C) linked by a C(O)OCH2CH2OC(O) bridge. The reaction of 1 with different mol. ratios of Na[M(CO)3C5H4R] [M = Mo, W; R = H, C(O)Me] gave the one-step exchange products (CO)9Co3(.mu.3-C)C(O)OCH2CH2OC(O)(.mu.3-C)Co2M(CO)8(C5H4R) [M = Mo, R = H (2); M = Mo, R = C(0)Me(3); M = W, R = H(4); M = W, R = C(0)Me(5)] or the two-step exchange products [(C5H4R)(C0)8Co2M(.mu.3-C)C(0)OCH2]2 [M = Mo, R = H (6); M = Mo, R = C(0)Me(7); M = W, R = H(8); M = W, R = C(0)Me(9)]. By treating 5 or 9 with Na[Mo(CO)3C5H5] in 1/2 mol. ratio, the compd. (C5H5)(CO)8Co2Mo(.mu.3-C)C(O)OCH2CH2OC(O)(.mu.3-C)CoMoW(CO)7(C5H4C(O)Me)(C5H5) (10) or [(C5H5)(C5H4C(O)Me)(CO)7CoMoW(.mu.3-C)C(O)OCH2]2 (11) which have one or two chiral tetrahedral skeletons (CoMoWC) were obtained. Compds. 1-11 were characterized by C/H analyses, IR and 1H NMR. The results indicate that the Co(CO)3 group in different cluster cores has a different reactivity in a metal exchange reaction. The crystal structure of compd. 1 was detd. by single-crystal x-ray diffraction methods. The crystal belongs to monoclinic system with space group, P21/n(#14) and lattice parameters, $a = 0.933 \ 0(2) \ nm$, b = 1.5197(4) nm, c = 1.178 3(4) nm, .beta. = 91.16(2).degree., Z = 2, F(000) = 972.
- AN 1999:562241 CAPLUS
- DN 131:299543
- TI Synthesis and characterization of new double tetrahedral transition metal clusters
- AU Zhang, Jie; Chen, Xue-Nian; Ding, Er-Run; Yin, Yuan-Qi
- CS Lanzhou Inst. Chem. Phys., Chin. Acad. Sci., Lanzhou, 730000, Peop. Rep. China
- SO Gaodeng Xuexiao Huaxue Xuebao (1999), 20(8), 1172-1178 CODEN: KTHPDM; ISSN: 0251-0790
- PB Gaodeng Jiaoyu Chubanshe
- DT Journal
- LA Chinese
- IT 247064-05-7P 247064-12-6P
 - RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation) (prepn. and reaction with cyclopentadienylmolybdenum salt complex)
- RN 247064-05-7 CAPLUS
- Tungsten, [(1,2,3,4,5-.eta.)-1-acetyl-2,4-cyclopentadien-1-yl]dicarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]](pentadecacarbonylpentacobalt)-, (4Co-Co)(2Co-W) (9CI) (CA INDEX NAME)





RN 247064-12-6 CAPLUS
CN Tungsten, tetracarbonylbis(.eta.5-2,4-cyclopentadien-1-yl)[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]]bis(hexacarbonyldicobalt)di-, (2Co-Co)(4Co-W) (9CI) (CA INDEX NAME)

$$C = 0$$

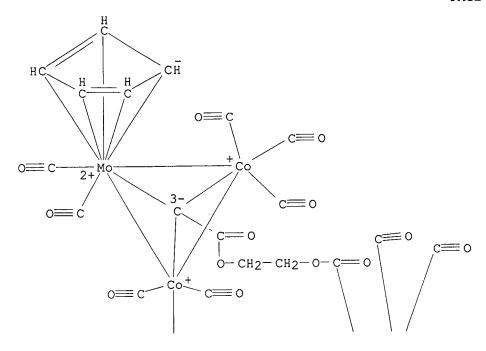
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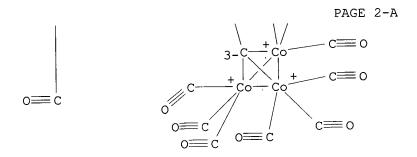
247064-17-1P 247064-20-6P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of)

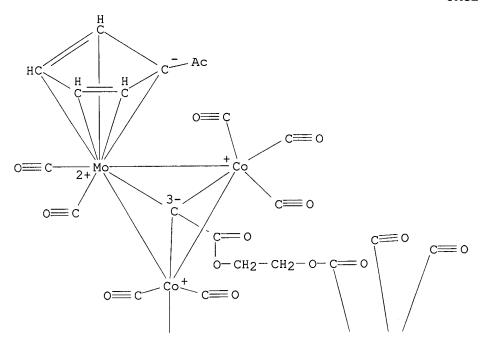
247063-97-4 CAPLUS RN

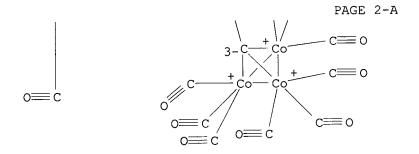
Molybdenum, dicarbonyl(.eta.5-2,4-cyclopentadien-1-yl)[.mu.6-[1,2-CN ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]](pentadecacarbonylpentacoba lt)-, (4Co-Co)(2Co-Mo) (9CI) (CA INDEX NAME)



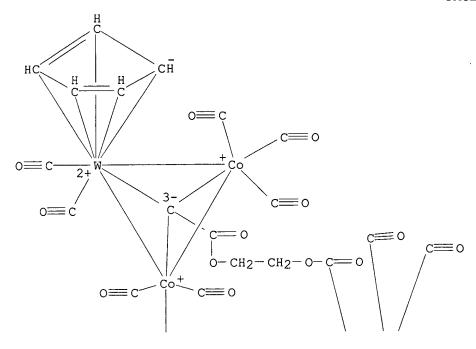


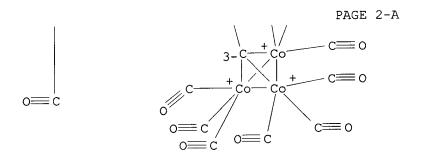
RN 247064-00-2 CAPLUS
CN Molybdenum, [(1,2,3,4,5-.eta.)-1-acetyl-2,4-cyclopentadien-1-yl]dicarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]](pentadecacarbonylpentacobalt)-, (4Co-Co)(2Co-Mo) (9CI) (CA INDEX NAME)





RN 247064-02-4 CAPLUS
CN Tungsten, dicarbonyl(.eta.5-2,4-cyclopentadien-1-yl)[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]](pentadecacarbonylpentacobalt)-, (4Co-Co)(2Co-W) (9CI) (CA INDEX NAME)

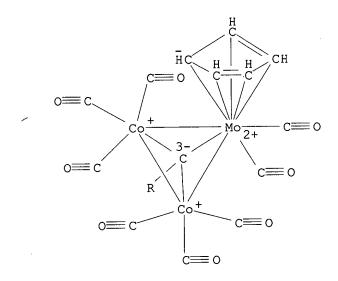




RN 247064-07-9 CAPLUS
CN Molybdenum, tetracarbonylbis(.eta.5-2,4-cyclopentadien-1-yl)[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]]bis(hexacarbonyldicobalt)di-, (2Co-Co)(4Co-Mo) (9CI) (CA INDEX NAME)

$$0 = C$$

$$0 =$$

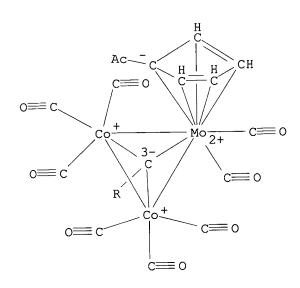


247064-10-4 CAPLUS RN

Molybdenum, bis[(1,2,3,4,5-.eta.)-1-acetyl-2,4-cyclopentadien-1-yl]tetracarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-CN ylidyne)]]]bis(hexacarbonyldicobalt)di-, (2Co-Co)(4Co-Mo) (9CI) (CA INDEX NAME)

$$O = C$$

$$C =$$



RN 247064-15-9 CAPLUS

Tungsten, bis[(1,2,3,4,5-.eta.)-1-acetyl-2,4-cyclopentadien-1yl]tetracarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1ylidyne)]]bis(hexacarbonyldicobalt)di-, (2Co-Co)(4Co-W) (9CI) (CA INDEX NAME)

$$O = C$$

$$C = O$$

RN 247064-17-1 CAPLUS
CN Tungsten, [(1,2,3,4,5-.eta.)-1-acetyl-2,4-cyclopentadien-1yl]dicarbonylbis[dicarbonyl(.eta.5-2,4-cyclopentadien-1yl)molybdenum][.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1ylidyne)]]](nonacarbonyltricobalt)-, (Co-Co)(3Co-Mo)(Co-W)(Mo-W) (9CI)
(CA INDEX NAME)

$$O = C \qquad CO + C^{3-} C - O - CH_2 - CH_2 - O$$

$$O = C \qquad MO^{2+} - W^{2+} R$$

$$R^{2} \qquad R^{2} \qquad C - CH_{2} - CH_{2} - O$$

$$R^{2} \qquad R^{2} \qquad R^{2} \qquad R$$

$$R^{2} \qquad R^{2} \qquad R$$

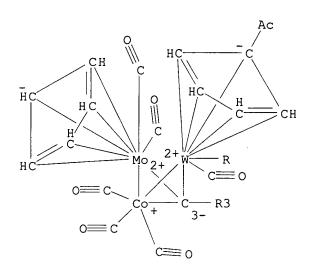
 $R - C \equiv 0$

PAGE 3-A



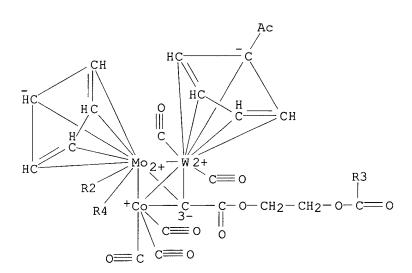
RN 247064-20-6 CAPLUS
CN Tungsten, bis[(1,2,3,4,5-.eta.)-1-acetyl-2,4-cyclopentadien-1yl]tetracarbonylbis[dicarbonyl(.eta.5-2,4-cyclopentadien-1yl)molybdenum][.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1ylidyne)]]]bis(tricarbonylcobalt)-, (2Co-Mo)(2Co-W)(2Mo-W) (9CI) (CA

PAGE 1-A



PAGE 2-A





PAGE 3-A



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ANSWER 4 OF 5 CAPLUS COPYRIGHT 2000 ACS
L4
     Complexes of a selected class of chiral ligands with general formula
AΒ
    CyN-(C:O)-X-C*R1R3-C*R2R4-X-(C:O)-CyN (X = O, NH, NR; CyN = nitrogen
     contq. heterocycle) with molybdenum, tungsten or
     chromium, preferably molybdenum, are effective as
     catalysts in highly enantioselective and regioselective alkylation of
     allylic substrates. Such compns. provide a versatile and low-cost
     alternative to existing catalysts. Thus, PhCH:CHCH2OCO2Me reacts with
     NaHC(CO2Me)2 in refluxing THF in the presence of [(EtCN)3Mo(CO)3] and
     chiral ligand N, N'-1R, 2R-cyclohexanediylbis(2-pyridinecarboxamide) to give
     alkylated products in 88% isolated yield with a regioselectivity of 32:1
     in favor of the branched (S)-PhCH[CH(CO2Me)2]CH:CH2 product (99% ee) over
     the linear product PhCH:CHCH2CH(CO2Me)2.
AN
     1999:421592 CAPLUS
     131:101904
DN
    Molybdenum bis(pyridinecarboxamide) chiral ligand complex
ΤI
    catalytic compositions and methods for asymmetric allylic alkylation
     Trost, Barry M.; Hachiya, Iwao
ΙN
    The Board of Trustees of the Leland Stanford Junior University, USA;
PA
    Chirotech Technology Limited
     PCT Int. Appl., 46 pp.
SO
    CODEN: PIXXD2
DT
     Patent
    English
LA
FAN.CNT 1
                     KIND DATE
                                          APPLICATION NO.
                                                           DATE
     PATENT NO.
                    ----
                    A2 19990701
                                          WO 1998-GB3850
                                                           19981221
    WO 9932225
PΙ
    WO 9932225
                     A3 19991104
        W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
            DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
            KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
            MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
            TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
        RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
            FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
            CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                     A1 19990712
                                         AU 1999-17711
                                                          19981221
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PRAI US 1997-68128
                     19971219
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PRAI US 1997-68128 19971219 WO 1998-GB3850 19981221 OS CASREACT 131:101904; MARPAT 131:101904

US CASKEACT 151.101904, MARIAT 151.101904

IT 230312-36-4D, molybdenum, tungsten and chromium complexes

RL: CAT (Catalyst use); USES (Uses)

(catalyst for regioselective and enantioselective allylic alkylation)

RN 230312-36-4 CAPLUS

CN 2-Pyridinecarboxamide, N,N'-[(1R,2R)-1,2-diphenyl-1,2-ethanediyl]bis-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 230312-36-4

RL: CAT (Catalyst use); USES (Uses)
(chiral ligand for molybdenum complex catalyst for regionselective and enantioselective allylic alkylation)

RN 230312-36-4 CAPLUS

CN 2-Pyridinecarboxamide, N,N'-[(1R,2R)-1,2-diphenyl-1,2-ethanediyl]bis-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2000 ACS

AB The higher-nuclearity cluster compd. [Co3(CO)9(.mu.3-C)C(O)OCH2]2 (1) was isolated from the reaction of [Cl3CC(O)OCH2]2 and Co2(CO)8, and its metal exchange reaction with $Na[M(CO)3\{.eta.5-C5H4C(O)C6H4C(O)OMe\}]$ (M = Mo or W) is discussed together with its structure detn. by single-crystal x-ray diffraction methods.

AN 1999:232442 CAPLUS

DN 130:338242

TI Synthesis, reactivity and crystal structure of a novel cluster [Co3(CO)9(.mu.3-C)C(O)OCH2]2

AU Zhang, Ji; Chen, Xue-Nian; Ding, Er-Run; Yin, Yuan-Qi; Sun, Jie

CS State Key Laboratory for Oxo Synthesis and Selective Oxidation, Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences, Lanzhou, 730000, Peop. Rep. China

SO J. Chem. Res., Synop. (1999), (3), 224-225 CODEN: JRPSDC; ISSN: 0308-2342

PB Royal Society of Chemistry

DT Journal

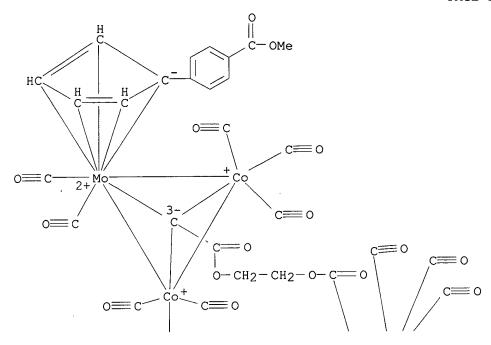
LA English

IT 224442-58-4P 224442-61-9P 224442-63-1P 224442-67-5P

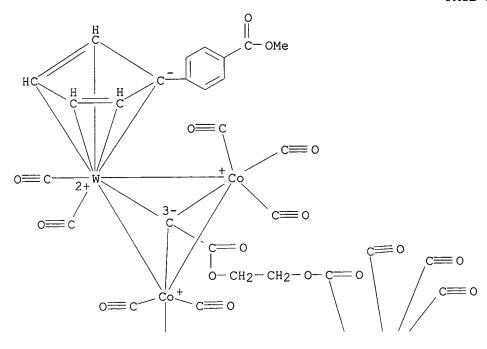
RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)

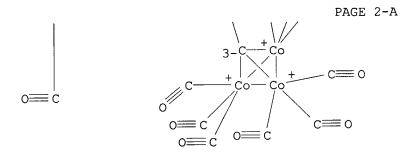
RN 224442-58-4 CAPLUS

CN Molybdenum, dicarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]][(1,2,3,4,5-.eta.)-1-[4-(methoxycarbonyl)phenyl]-2,4-cyclopentadien-1-yl](pentadecacarbonylpentacobalt)-, (4Co-Co)(2Co-Mo)(9CI) (CA INDEX NAME)



RN 224442-61-9 CAPLUS
CN Tungsten, dicarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]][(1,2,3,4,5-.eta.)-1-[4-(methoxycarbonyl)phenyl]-2,4-cyclopentadien-1-yl](pentadecacarbonylpentacobalt)-, (4Co-Co)(2Co-W) (9CI) (CA INDEX NAME)





RN 224442-63-1 CAPLUS
CN Molybdenum, tetracarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]]bis[(1,2,3,4,5-.eta.)-1-[4-(methoxycarbonyl)phenyl]-2,4-cyclopentadien-1-yl](dodecacarbonyltetracobalt)di-, (2Co-Co)(4Co-Mo) (9CI) (CA INDEX NAME)

$$O = C$$

$$O = C$$

$$C =$$

PAGE 3-A

c = 0

RN 224442-67-5 CAPLUS

CN Tungsten, tetracarbonyl[.mu.6-[1,2-ethanediylbis[oxy(2-oxo-2-ethanyl-1-ylidyne)]]]bis[(1,2,3,4,5-.eta.)-1-[4-(methoxycarbonyl)phenyl]-2,4cyclopentadien-1-yl](dodecacarbonyltetracobalt)di-, (2Co-Co)(4Co-W) (9CI)
(CA INDEX NAME)

$$C = OMe$$

$$C = OMe$$

$$C = O$$

PAGE 3-A

| C=== C

RE.CNT 7

RE

(1) Ding, E; J Chem Res (S) 1998, P246 CAPLUS

- (2) Ding, E; J Organomet Chem 1998, V559, P157 CAPLUS
 (3) Penfold, B; Acc Chem Res 1973, V6, P73 CAPLUS
 (4) Seyferth, D; J Organomet Chem 1973, V50, P265 CAPLUS
 (5) Vahrenkamp, H; Comments Inorg Chem 1985, V4, P253 CAPLUS
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2000 ACS GI

AB The title reaction was examd. using (EtCN) 3Mo(CO)3 (I) as catalyst and several diamine ligands. Thus, reacting PhCH:CHCH:CHCH2OCO2Me with (MeO2C) 2CH using I and diamine II gave (MeO2C) 2CC(CH:CH2) CH:CHPh in 98% ee. Polyenyl carbonate III gave diester IV in 96% ee after 1.5 h.

AN 1999:680946 CAPLUS

DN 132:78124

TI Regio- and enantioselective molybdenum-catalyzed alkylations of polyenyl esters

AU Trost, Barry M.; Hildbrand, Stefan; Dogra, Kalindi

CS Department of Chemistry, Stanford University, Stanford, CA, 94305-5080, USA

SO J. Am. Chem. Soc. (1999), 121(44), 10416-10417 CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

OS CASREACT 132:78124

IT 230312-36-4

RL: CAT (Catalyst use); USES (Uses) (regio- and enantioselective molybdenum-catalyzed alkylation of polyenyl esters)

RN 230312-36-4 CAPLUS

CN 2-Pyridinecarboxamide, N,N'-[(1R,2R)-1,2-diphenyl-1,2-ethanediyl]bis-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RE.CNT 20

- (1) Adams, R; J Am Chem Soc 1979, V101, P2570 CAPLUS
 (2) Andersson, P; J Org Chem 1991, V56, P5349 CAPLUS
 (3) Faller, J; J Organomet Chem 1990, V383, P161 CAPLUS
 (4) Faller, J; Organometallics 1988, V7, P1670 CAPLUS
 (6) Glorius, F; Org Lett 1999, V1, P141 CAPLUS

09/498701 Page 1

```
=> s 13 and (Mo Or W or Cr or Molybdenum or Tungsten or Chromium)
             5 L3
         52071 MO
         43281 MOS
         93085 MO
                 (MO OR MOS)
          1809 OR
        377663 W
             0 MO OR W
                 (MO(W)OR(W)W)
         74685 CR
          1187 CRS
         75602 CR
                 (CR OR CRS)
         56308 MOLYBDENUM
             5 MOLYBDENUMS
         56309 MOLYBDENUM
                 (MOLYBDENUM OR MOLYBDENUMS)
         73936 TUNGSTEN
            22 TUNGSTENS
         73936 TUNGSTEN
                 (TUNGSTEN OR TUNGSTENS)
         81588 CHROMIUM
            22 CHROMIUMS
         81591 CHROMIUM
                 (CHROMIUM OR CHROMIUMS)
L5
             3 L3 AND (MO OR W OR CR OR MOLYBDENUM OR TUNGSTEN OR CHROMIUM)
=> d abs bib fhitstr 1-3
L5
     ANSWER 1 OF 3 USPATFULL
       The present invention contemplates a compound defined by the following
AΒ
       formula: ##STR1## that inhibits the binding between the VLA-4 and the
       fibronectin CS-1 compound. Pharmaceutical compositions containing a
       contemplated compound and methods for treating immunoinflammatory
       conditions using the compound are also disclosed.
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
       1999:92778 USPATFULL
ΑN
ΤI
       CS-1 peptidomimetics, compositions and methods of using the same
       Arrhenius, Thomas S., San Diego, CA, United States
IN
       Elices, Mariano J., San Diego, CA, United States
       Gaeta, Federico C. A., Olivenhain, CA, United States
PΑ
       Cytel Corporation, San Diego, CA, United States (U.S. corporation)
       US 5936065 19990810
PT
       US 1995-462424 19950605 (8)
ΑI
       Continuation-in-part of Ser. No. US 1994-349024, filed on 2 Dec 1994,
RLI
       now abandoned which is a continuation-in-part of Ser. No. US
       1993-164101, filed on 6 Dec 1993, now abandoned
       Utility
DT
      Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Lukton, David
EXNAM
       Campbell & Flores LLP
LREP
       Number of Claims: 2
CLMN
ECL
       Exemplary Claim: 1
       8 Drawing Figure(s); 7 Drawing Page(s)
DRWN
LN.CNT 3625
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT 209600-98-6
        (fibronectin CS-1 peptidomimetics for inhibiting binding of CS-1 to
```

VLA-4 and for treating immunoinflammatory conditions)

RN 209600-98-6 USPATFULL

CN D-Proline, N-(phenylacetyl)-L-leucyl-L-.alpha.-aspartyl-L-phenylalanyl-,
4,4',4'',4''',4''''-pentaamide with N-(2-aminoethyl)-N'-[2-[(2-aminoethyl)amino]ethyl]-1,2-ethanediamine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PAGE 2-B

ANSWER 2 OF 3 USPATFULL

The present invention contemplates a compound defined by the following formula: ##STR1## that inhibits the binding between the VLA-4 and the fibronectin CS-1 compound. Pharmaceutical compositions containing a contemplated compound and methods for treating immunoinflammatory conditions using the compound are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT. 1998:124555 USPATFULL CS-1 peptidomimetics, compositions and methods of using same ΑN ΤI Arrhenius, Thomas S., San Diego, CA, United States ΙN Elices, Mariano J., San Diego, CA, United States Gaeta, Federico C. A., Olivenhain, CA, United States Cytel Corporation, San Diego, CA, United States (U.S. corporation) PA US 5821231 19981013 ΡI US 1995-461056 19950605 (8) Continuation-in-part of Ser. No. US 1994-349024, filed on 2 Dec 1994 ΑI which is a continuation-in-part of Ser. No. US 1993-164101, filed on 6 RLI Dec 1993, now abandoned Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Gupta, Anish DTEXNAM Campbell & Flores LLP LREP Number of Claims: 25 CLMN Exemplary Claim: 1 ECL 8 Drawing Figure(s); 7 Drawing Page(s) DRWN LN.CNT 3766

CAS INDEXING IS AVAILABLE FOR THIS PATENT. 209600-98-6P

(prepn. of CS-1 peptidomimetics and their compns.)

RN 209600-98-6 USPATFULL

D-Proline, N-(phenylacetyl)-L-leucyl-L-.alpha.-aspartyl-L-phenylalanyl-, 4,4',4'',4'''-pentaamide with N-(2-aminoethyl)-N'-[2-[(2-CN aminoethyl)amino]ethyl]-1,2-ethanediamine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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L5 ANSWER 3 OF 3 USPATFULL

The present invention contemplates a compound defined by the following formula: ##STR1## that inhibits the binding between the VLA-4 and the fibronectin CS-1 compound. Pharmaceutical compositions containing a contemplated compound and methods for treating immunoinflammatory conditions using the compound are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AN 1998:72598 USPATFULL

TI CS-1 peptidomimetics, compositions and methods of using the same

IN Arrhenius, Thomas S., San Diego, CA, United States Elices, Mariano J., San Diego, CA, United States Gaeta, Federico C.A., Olivenhain, CA, United States

PA Cytel Corporation, San Diego, CA, United States (U.S. corporation)

PI US 5770573 19980623

AI US 1995-462219 19950605 (8)

RLI Continuation-in-part of Ser. No. US 1994-349024, filed on 2 Dec 1994 which is a continuation-in-part of Ser. No. US 1993-164101, filed on 6 Dec 1993, now abandoned

DT Utility

EXNAM Primary Examiner: Tsang, Cecilia J.; Assistant Examiner: Gupta, Anish

LREP Campbell & Flores LLP CLMN Number of Claims: 14 ECL Exemplary Claim: 1

DRWN 8 Drawing Figure(s); 7 Drawing Page(s)

LN.CNT 3926 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

209600-98-6P

(prepn. of CS-1 peptidomimetics and their compns.)

209600-98-6 USPATFULL RNCN

D-Proline, N-(phenylacetyl)-L-leucyl-L-.alpha.-aspartyl-L-phenylalanyl-, 4,4',4'',4'''-pentaamide with N-(2-aminoethyl)-N'-[2-[(2aminoethyl)amino]ethyl]-1,2-ethanediamine (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

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PAGE 2-B